TABLE 3

ACTUARIAL ACCRUED LIABILITY

	As of June 30, 2021
1. Actuarial Accrued Liability	
a. Member Contribution Balances	\$ 41,003,415
b. Active & Inactive Members	293,098,652
c. In-pay Members	308,069,694
d. Total	642,171,761
2. Actuarial Value of Assets	615,754,553
3. Unfunded Actuarial Accrued Liability: (1d) – (2)	26,417,208
4. Funded Ratio: (2)/(1d)	95.89%



TABLE 4
SOLVENCY TEST

		Actuarial Accrued Lial	bilities (AAL)			Portion of AAL Covered by Assets			
			Active					Active	
			Member	Total				Member	Total
Actuarial	Active		(Employer	Actuarial	Actuarial	Active		(Employer	Actuarial
Valuation as	Member	Retirees and	Financed	Accrued	Value of	Member	Retirees and	Financed	Accrued
of June 30	Contributions	Beneficiaries	Portion)	Liabilities	Assets	Contributions	Beneficiaries	Portion)	Liabilities
2021	\$41,003	\$308,070	\$293,099	\$642,172	\$615,755	100.0%	100.0%	91.0%	95.9%
2020	41,523	299,146	251,841	592,510	564,741	100.0	100.0	89.0	95.3
2019	38,165	269,886	278,448	586,499	538,600	100.0	100.0	82.8	91.8
2018	38,541	258,255	250,898	547,694	516,750	100.0	100.0	87.7	94.4
2017	36,385	245,177	242,173	523,735	492,013	100.0	100.0	86.9	93.9
2016	34,804	244,484	221,838	501,126	469,378	100.0	100.0	85.7	93.7
2015	32,383	210,020	226,542	468,945	447,514	100.0	100.0	90.5	95.4
2014	32,060	216,044	216,751	464,855	419,568	100.0	100.0	79.1	90.3
2013	29,060	224,132	199,918	453,110	381,240	100.0	100.0	64.1	84.1
2012	27,699	205,341	204,814	437,854	260,096	100.0	100.0	13.2	59.4

Note: All of the dollar amounts are in thousands of dollars.



TABLE 5 RECONCILIATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY

	For Year Ending	g June 30, 2021
1. Unfunded Actuarial Accrued Liability as of June 30, 2020	\$	27,769,036
2. Normal Cost		17,969,443
3. Actuarially Determined Contribution		(21,175,239)
4. Interest		1,658,019
5. Expected Unfunded Actuarial Accrued Liability as of June 30, 2021	\$	26,221,259
6. Actuarial Value of Asset Changes		
a. Investment Experience (Gain)/Loss	\$	(19,359,450)
b. Contributions (Above)/Below the Actuarially Determined Contribu	tion	
and Other (Gain)/Loss	\$	(443,031)
7. Actuarial Accrued Liability Changes		
a. Actuarial Accrued Liability Experience (Gain)/Loss	\$	(6,218,534)
b. Additional Liability Due to Benefit Changes		0
c. Additional Liability Due to Assumption Changes		26,216,964
8. Total Experience (Gain)/Loss	\$	195,949
9. Unfunded Actuarial Accrued Liability as of June 30, 2021: (5) + (8)	\$	26,417,208



TABLE 6

ACTUARIAL GAIN/(LOSS)

Liabilities

\$	592,510,151
•	17,969,443
	(28,916,421)
	366,350
	40,243,808
	0
	26,216,964
\$	648,390,295
\$	642,171,761
\$	564,741,115
	22,661,411
	(28,916,344)
	37,908,921
\$	596,395,103
\$	615,754,553
\$	6,218,534
	19,359,450
\$	25,577,984
	\$ \$ \$ \$

¹ Does not include miscellaneous expenses or benefit overpayments.



TABLE 7

EXPERIENCE GAIN/(LOSS) ANALYSIS BY SOURCE

Liability Sources (in thousands)	G	Gain/(Loss)		
Retirement	\$	7,163		
Termination		(336)		
Disability		682		
Mortality		2,713		
Salary		(3,807)		
New Entrants/Rehires		(1,181)		
Miscellaneous/COLA		985		
Total Liability Experience Gain/(Loss)	\$	6,219		
as a % of AAL		1.0%		
Asset Experience Gain/(Loss)	\$	19,359		
Total Actuarial Experience Gain/(Loss)	\$	25,578		



TABLE 8
PROJECTED BENEFIT PAYMENTS

Plan Year Ending June 30	Benefit Amount
2022	\$ 33,788,410
2023	36,240,699
2024	38,516,609
2025	40,648,778
2026	42,805,941
2027	44,620,609
2028	46,441,198
2029	48,268,743
2030	49,981,033
2031	51,576,150
2032	53,312,611
2033	54,968,988
2034	56,726,515
2035	58,137,757
2036	59,376,049
2037	60,653,235
2038	61,808,672
2039	62,472,440
2040	63,071,275
2041	63,294,966
2042	63,196,486
2043	62,999,961
2044	62,622,677
2045	61,912,705
2046	61,179,671
2047	60,270,402
2048	59,054,632
2049	57,718,846
2050	56,211,157
2051	54,609,886

Note: Payouts reflect nominal payouts for current members, assuming that all future assumptions are met.

SECTION 5 – EMPLOYER CONTRIBUTIONS



The previous two sections were devoted to a discussion of the assets and liabilities of the plan. We now turn to considering how the benefits will be funded. The method used to determine the incidence of the contributions in various years is called the actuarial cost method. Under an actuarial cost method, the contributions required to meet the difference between current assets and current liabilities are allocated each year between two elements: (1) the normal cost rate and (2) the unfunded actuarial accrued liability contribution rate.

The term "fully funded" is often applied to a plan in which contributions at the normal cost rate are sufficient to pay for the benefits of existing employees as well as for those of new employees. More often than not, plans are not fully funded, either because of past benefit improvements that have not been completely funded or because of actuarial deficiencies that have occurred because experience has not been as favorable as anticipated by the actuarial assumptions. Under these circumstances, an unfunded actuarial accrued liability (UAAL) exists. Likewise, when the actuarial value of assets is greater than the actuarial accrued liability, a surplus exists.

Description of Contribution Components

The Entry Age Normal (EAN) actuarial cost method is used for the valuation. Under that method, the normal cost for each year from entry age to assumed exit age is a constant percentage of the member's year by year projected compensation. The portion of the present value of future benefits not provided by the present value of future normal costs is the actuarial accrued liability. The unfunded actuarial accrued liability/(surplus) represents the difference between the actuarial accrued liability and the actuarial value of assets as of the valuation date. The unfunded actuarial accrued liability is calculated each year and reflects experience gains and losses.

The INPRS Board of Trustees has established a funding policy of requesting appropriations from the State in an amount equal to the actuarially determined contribution. Based on the June 30, 2020 actuarial valuation, the Board requested appropriations from the State for fiscal years 2022 and 2023. This June 30, 2021 valuation will not be directly used for determining contributions. Due to the biennial cycle used to set appropriations, the contribution amount for the plan years ending June 30, 2024 and June 30, 2025 will rely on the most up-to-date plan status at that time, which is the June 30, 2022 valuation.

Contribution Summary

In Table 9, the amortization payment related to the unfunded actuarial accrued liability/(surplus), as of June 30, 2021, is developed. Table 10 develops the actuarial determined contribution rate for the Plan. The contribution rates shown in this report are based on the actuarial assumptions and cost methods described in Appendix C. Additionally, in Table 11 the contribution rates under alternative discount rates are provided to illustrate the sensitivity of the contribution requirements to the selection of the investment return assumption.



TABLE 9 SCHEDULE OF AMORTIZATION BASES

Amortization Bases	Original Amount ¹	June 30, 2021 Remaining Payments	Date of Last Payment	Outstanding Balance as of June 30, 2021	Annual Contribution
2009 UAAL Base	40,281,829	15	7/1/2036	30,365,850	2,990,893
2010 UAAL Base	15,151,518	19	7/1/2040	12,538,476	1,078,373
2011 UAAL Base	14,155,565	20	7/1/2041	12,015,476	1,006,046
2012 UAAL Base	12,754,451	21	7/1/2042	11,080,411	905,209
2013 UAAL Base	(6,981,734)	22	7/1/2043	(6,195,725)	(494,839)
2014 UAAL Base	(25,396,685)	23	7/1/2044	(22,981,723)	(1,797,671)
2015 UAAL Base	(22,870,686)	24	7/1/2045	(21,070,648)	(1,616,820)
2016 UAAL Base	11,116,546	15	7/1/2036	9,522,049	937,877
2017 UAAL Base	1,104,859	16	7/1/2037	982,350	93,065
2018 UAAL Base	458,415	17	7/1/2038	421,562	38,553
2019 UAAL Base	18,284,577	18	7/1/2039	17,336,972	1,535,411
2020 UAAL Base	(18,251,291)	19	7/1/2040	(17,793,791)	(1,530,356)
2021 UAAL Base	195,949	20	7/1/2041	195,949	16,407
Total				\$ 26,417,208	\$ 3,162,148
1. Total UAAL Amortiz	\$ 3,162,148				
2. Projected Payroll for	\$ 62,714,587				
3. UAAL Amortization	5.04%				
4. Remaining Amortizat	9.0				

¹ The original amounts from 2017 to 2013 were provided by the prior actuary. Amounts prior to that were estimated by INPRS. ² The weighted average remaining UAAL amortization period is calculated by weighting the remaining amortization period of each base by the amortization amount of each base.



TABLE 10

ACTUARIALLY DETERMINED CONTRIBUTION RATE

1. Projected Covered Payroll for FY 2022	\$ 62,714,587
 2. Normal Cost as of June 30, 2020 a. Dollar Amount b. Percent of Total Pay c. Percent of Covered Pay ¹ 	\$ 20,837,708 29.11% 33.23%
 3. Amortization of UAAL as of June 30, 2020 a. Dollar Amount b. Percent of Covered Pay ¹ 	\$ 3,162,148 5.04%
4. Total Recommended Contribution Rate: (2c) + (3b)	38.27%
 5. Expected Employee Contributions a. Dollar Amount b. Percent of Covered Pay ¹ 	\$ 3,762,875 6.00%
6. Actuarially Determined Contribution Rate: (4) - (5)	32.27%
7. Estimated Actuarially Determined Contribution Amount ² : (1) x (6)	\$ 20,237,997
8. Expected Appropriations and Court Fees for FY 2022	\$ 17,563,885
9. Expected Percentage of Actuarially Determined Contribution Contributed	86.79%

Active members with less than 22 years of service make 6% contributions.

² Due to the biennial appropriations cycle, this will not directly impact the funding of the plan. Next year, this will be used to assist with the determination of the FY 2024 and FY 2025 approved funding amounts.



TABLE 11
INVESTMENT RETURN SENSITIVITY

	1.00%	0.75%	0.50%	0.25%	Current
	Decrease: (5.25%)	Decrease: (5.50%)	Decrease: (5.75%)	Decrease: (6.00%)	Assumption: (6.25%)
Funded Status	(3.23 /0)	(3.30 /0)	(3.7370)	(0.00 /0)	(0.23 /0)
Actuarial Accrued Liability	\$718,229,383	\$697,916,380	\$678,501,462	\$659,935,316	\$642,171,761
Actuarial Value of Assets	615,754,553	615,754,553	615,754,553	615,754,553	615,754,553
Unfunded Actuarial Accrued Liability	\$102,474,830	\$82,161,827	\$62,746,909	\$44,180,763	\$26,417,208
Funded Ratio	85.7%	88.2%	90.8%	93.3%	95.9%
Actuarially Determined Contribution Amount					
Normal Cost	\$25,775,318	\$24,420,581	\$23,149,894	\$21,957,406	\$20,837,708
UAAL Amortization	8,963,534	7,492,985	6,036,343	4,592,936	3,162,148
Expected Member Contributions	(3,762,875)	(3,762,875)	(3,762,875)	(3,762,875)	(3,762,875)
Actuarially Determined Contribution Amount	\$30,975,977	\$28,150,690	\$25,423,362	\$22,787,467	\$20,236,981
Actuarially Determined Contribution Rate	49.39%	44.89%	40.54%	36.34%	32.27%
	0.25%	0.50%	0.75%	1.00%	1.25%
	Increase:	Increase:	Increase:	Increase:	Increase:
	(6.50%)	(6.75%)	(7.00%)	(7.25%)	(7.50%)
Funded Status					
Actuarial Accrued Liability	\$625,167,533	\$608,882,065	\$593,277,317	\$578,317,578	\$563,969,327
Actuarial Value of Assets	615,754,553	615,754,553	615,754,553	615,754,553	615,754,553
Unfunded Actuarial Accrued Liability	\$9,412,980	(\$6,872,488)	(\$22,477,236)	(\$37,436,975)	(\$51,785,226)
Funded Ratio	98.5%	101.1%	103.8%	106.5%	109.2%
Actuarially Determined Contribution Amount					
Normal Cost	\$19,785,804	\$18,797,070	\$17,867,231	\$16,992,329	\$16,168,696
UAAL Amortization	1,743,391	(505,842)	(1,692,859)	(2,883,943)	(4,078,808)
Expected Member Contributions	(3,762,875)	(3,762,875)	(3,762,875)	(3,762,875)	(3,762,875)
Actuarially Determined Contribution Amount	\$17,766,320	\$14,528,352	\$12,411,497	\$10,345,510	\$8,327,013
Actuarially Determined Contribution Rate	28.33%	23.17%	19.79%	16.50%	13.28%

June 30, 2021 Actuarial Valuation

Judges' Retirement System



GASB NO. 67 AND GASB NO. 68

The Governmental Accounting Standards Board issued Statement No. 67 (GASB 67), "Financial Reporting for Pension Plans" and Statement No. 68 (GASB 68), "Accounting and Financial Reporting for Pensions" in June 2012. The effective date for reporting under GASB 67 for the INPRS Plans was the fiscal year ending June 30, 2014. GASB 68's effective date for employers is the first fiscal year beginning after June 15, 2014.

The sections that follow provide the results of the required actuarial calculations set out in GASB 67 and GASB 68 for note disclosure and Required Supplementary Information (RSI). Some of this information was provided by the INPRS for use in this report.

The discount rate used for these disclosures is the assumed return on assets of 6.25%. We have verified that the current assets in conjunction with future contributions made on behalf of current members (including all contributions to fund any past service liability) will be sufficient to make the anticipated benefit payments to be provided to the current members.

To the best of our knowledge, the information contained in this report is complete and accurate. The calculations were performed by qualified actuaries according to generally accepted actuarial principles and practices, as well as in conformity with Actuarial Standards of Practice issued by the Actuarial Standards Board. The calculations are based on the current provisions of the plan, and on actuarial assumptions that are internally consistent and individually reasonable based on the actual experience of the plan. In addition, the calculations were completed in compliance with applicable law and, in our opinion, meet the requirements of GASB 67 and GASB 68.



TABLE 12 STATEMENT OF FIDUCIARY NET POSITION

				June 30, 2021
1.	Assets			
	a. Cash		\$	0
	b. Receiv	vables		
	i.	Contributions and Miscellaneous Receivables	\$	3,602,771
	ii.	Investments Receivable		5,296,908
	iii.	Foreign Exchange Contracts Receivable		121,350,508
	iv.	Interest and Dividends		1,416,658
	V.	Receivables Due From Other Funds		0
	vi.	Total Receivables	\$	131,666,845
	c. Invest	ments		
	i.	Short-Term Investments	\$	0
	ii.	Pooled Repurchase Agreements		6,041,314
	iii.	Pooled Short-Term Investments		42,443,442
	iv.	Pooled Fixed Income		208,283,733
	v.	Pooled Equity		145,467,595
	vi.	Pooled Alternative Investments		313,989,034
	vii.	Pooled Derivatives		1,844,717
	viii.	Pooled Investments		0
	ix.	Securities Lending Collateral		3,535,287
	х.	Total Investments	\$	721,605,122
	d. Net Ca	apital Assets		0
	e. Other	•		0
	f. Total A	Assets: $a + b(vi) + c(x) + d + e$	\$	853,271,967
2.	Liabiliti	es		
	a. Admir	nistrative Payable	\$	3,929
	b. Retire	ment Benefits Payable		0
	c. Investments Payable			33,034,080
	d. Foreign Exchange Contracts Payable			120,466,245
	e. Securi	ties Lending Obligations		3,535,287
	f. Securi	ties Sold Under Agreement to Repurchase		8,228,306
	g. Due T	o Other Funds		11,271
	•	Other Governments		0
	i. Total I	Liabilities: $a + b + c + d + e + f + g + h$	\$	165,279,118
3.	Fiducia	y Net Position Restricted for Pensions: (1)(f) - (2)(i)	\$	687,992,849



TABLE 13

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

		For Fiscal Year Ending	g June 30, 2021
1. Fiduciary	Net Position as of June 30, 2020	\$	554,121,143
2. Additions			
a. Contrib	outions		
i.	Member Contributions	\$	3,674,451
ii.	Employer Contributions		18,620,626
iii.	Service Purchases (Employer and Member) ¹		366,350
iv.	Non-Employer Contributing Entity Contributions		0
v.	Total Contributions	\$	22,661,427
b. Investn	nent Income/(Loss)		
i.	Net Appreciation/(Depreciation)	\$	137,091,942
ii.	Net Interest and Dividend Income		7,617,990
iii.	Securities Lending Income		36,969
iv.	Other Net Investment Income		38,876
v.	Investment Management Expenses		(4,462,909)
vi.	Direct Investment Expenses		(87,625)
vii.	Securities Lending Expenses		(7,655)
viii.	Total Investment Income/(Loss)	\$	140,227,588
c. Other A	Additions		
i.	Member Reassignments		0
ii.	Miscellaneous Receipts		(16)
iii.	Total Other Additions	\$	(16)
d. Total R	Revenue (Additions): $a(v) + b(viii) + c(iii)$	\$	162,888,999
3. Deduction	18		
a. Pension	n, Survivor and Disability Benefits	\$	28,812,917
b. Death a	and Funeral Benefits		0
c. Distrib	utions of Contributions and Interest		103,427
d. Admin	istrative Expenses		100,949
e. Membe	er Reassignments		0
f. Miscell	aneous Expenses		0
g. Total E	expenses (Deductions)	\$	29,017,293
4. Net Incre	ase (Decrease) in Fiduciary Net Position: (2)(d) - (3)(g)	\$	133,871,706
5. Fiduciary	Net Position as of June 30, 2021: (1) + (4)	\$	687,992,849

¹ Service purchases paid by employer of \$0 and employee of \$366,350.



TABLE 14
SCHEDULE OF CHANGES IN NET PENSION LIABILITY

For Fiscal Year Ending June 30, 2021 **Total Pension Net Pension Plan Fiduciary** Liability **Net Position** Liability (a) **(b)** (a) - (b)\$ \$ 38,389,008 1. Balance at June 30, 2020 592,510,151 554,121,143 2. Changes for the Year: Service Cost (SC)¹ 17,969,443 17,969,443 Interest Cost 40,243,810 40,243,810 Experience (Gains)/Losses (6,218,613)(6,218,613)**Assumption Changes** 26,216,964 26,216,964 0 Plan Amendments 0 Benefit Payments² 0 (28,916,344)(28,916,344)Service Purchases **Employer Contributions** 0 0 **Employee Contributions** 366,350 366,350 0 0 0 Member Reassignments Employer Contributions ³ 18,620,626 (18,620,626)Non-employer Contributions 3,674,451 **Employee Contributions** (3,674,451)Net Investment Income 140,227,588 (140,227,588)(100,949)100,949 Administrative Expenses Other (16)16 49,661,610 \$ 133,871,706 \$ (84,210,096) **Net Changes** 3. Balance at June 30, 2021 642,171,761 687,992,849 \$ (45,821,088)

Service cost provided as of beginning of year. Interest to end of year is included in the interest cost.

² Includes refund of member contributions of \$103,427.

³ Includes \$11,467,437 of state appropriations to the fund.



TABLE 15
DEFERRED OUTFLOWS OF RESOURCES

	June 30, 2020 Remaining Period			Recognition	Jı	ıne 30, 2021
1. Liability Experience		,		g		,
June 30, 2021 Loss	\$	0	4.17	\$ 0	\$	0
June 30, 2020 Loss		0	3.27	0		0
June 30, 2019 Loss		3,451,529	1.36	2,537,890		913,639
June 30, 2018 Loss		0	0.38	0		0
June 30, 2017 Loss		0	0.00	0		0
June 30, 2016 Loss		0	0.00	0		0
June 30, 2015 Loss		0	0.00	0		0
June 30, 2014 Loss		0	0.00	0		0
2. Assumption Changes						
June 30, 2021 Loss	\$	26,216,964	4.17	\$ 6,287,042	\$	19,929,922
June 30, 2020 Loss		0	3.27	0		0
June 30, 2019 Loss		0	1.36	0		0
June 30, 2018 Loss		0	0.38	0		0
June 30, 2017 Loss		0	0.00	0		0
June 30, 2016 Loss		0	0.00	0		0
June 30, 2015 Loss		0	0.00	0		0
3. Investment Experience						
June 30, 2021 Loss	\$	0	5.00	\$ 0	\$	0
June 30, 2020 Loss		18,090,288	4.00	4,522,572		13,567,716
June 30, 2019 Loss		0	3.00	0		0
June 30, 2018 Loss		0	2.00	0		0
June 30, 2017 Loss		0	1.00	0		0
Total Outflows:				 		
(1)+(2)+(3)	\$	47,758,781		\$ 13,347,504	\$	34,411,277

Information was provided prospectively from June 30, 2013 for GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.

In accordance with GASB, the original amortization period for liability experience and assumption changes are amortized over the expected future working lifetime of all members, whereas the investment experience is amortized over five years.



TABLE 16
DEFERRED INFLOWS OF RESOURCES

	June 30, 2020 Remaining Period				Recognition June 30, 2		
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	une 30, 2020	1 CHOU		Recognition	J	une 30, 2021
1. Liability Experience							
June 30, 2021 Gain	\$	6,218,613	4.17	\$	1,491,275	\$	4,727,338
June 30, 2020 Gain		1,507,139	3.27		460,900		1,046,239
June 30, 2019 Gain		0	1.36		0		0
June 30, 2018 Gain		347,422	0.38		347,422		0
June 30, 2017 Gain		0	0.00		0		0
June 30, 2016 Gain		0	0.00		0		0
June 30, 2015 Gain		0	0.00		0		0
June 30, 2014 Gain		0	0.00	0			0
2. Assumption Changes							
June 30, 2021 Gain	\$	0	4.17	\$	0	\$	0
June 30, 2020 Gain		19,002,974	3.27		5,811,308		13,191,666
June 30, 2019 Gain		0	1.36		0		0
June 30, 2018 Gain		0	0.38	0		0	
June 30, 2017 Gain		0	0.00	0		0	
June 30, 2016 Gain		0	0.00	0		0	
June 30, 2015 Gain		0	0.00		0		0
3. Investment Experience							
June 30, 2021 Gain	\$	103,038,922	5.00	\$	20,607,785	\$	82,431,137
June 30, 2020 Gain		0	4.00		0		0
June 30, 2019 Gain		1,728,852	3.00		576,285		1,152,567
June 30, 2018 Gain		4,885,338	2.00		2,442,670		2,442,668
June 30, 2017 Gain		1,087,208	1.00	1,087,208		0	
Total Inflows:	-						
(1)+(2)+(3)	\$	137,816,468		\$	32,824,853	\$	104,991,615

Information was provided prospectively from June 30, 2013 for GASB No. 68 purposes. Results prior to 2018 were produced by the prior actuary.

In accordance with GASB, the original amortization period for liability experience and assumption changes are amortized over the expected future working lifetime of all members, whereas the investment experience is amortized over five years.



TABLE 17

DEFERRED INFLOWS / OUTFLOWS TO BE RECOGNIZED IN PENSION EXPENSE

Fiscal Year Ending June 30	Deferred Outflows Deferred Inflows		Net Deferred Outflows/(Inflows)		
Current Year:					
2021	\$	13,347,504	\$ 32,824,853	\$	(19,477,349)
Future Years:					
2022	\$	11,723,253	\$ 31,390,221	\$	(19,666,968)
2023		10,809,614	28,947,550		(18,137,936)
2024		10,809,614	23,792,549		(12,982,935)
2025		1,068,796	20,861,295		(19,792,499)
2026		0	0		0
Thereafter		0	0		0



TABLE 18

PENSION EXPENSE UNDER GASB NO. 68

	For Fiscal Year Ending June 30, 2021
Service Cost, beginning of year	\$ 17,969,443
2. Interest Cost, including interest on service cost	40,243,810
3. Member Contributions ¹	(3,674,451)
4. Administrative Expenses	100,949
5. Expected Return on Assets ²	(37,188,666)
6. Plan Amendments	0
7. Recognition of Deferred Inflows / Outflows of Resources Related to: a. Liability Experience (Gains) / Losses b. Assumption Change (Gains) / Losses c. Investment Experience (Gains) / Losses	238,293 475,734 (20,191,376)
d. Total: (7a)+(7b)+(7c)8. Miscellaneous (Income) / Expense	(19,477,349)
9. Total Collective Pension Expense: (1)+(2)+(3)+(4)+(5)+(6)+(7d)+(8)	(2,026,248)
10. Employer Service Purchases	0
Pension Expense / (Income): (9) + (10)	\$ (2,026,248)
¹ Excludes member paid service purchases of \$366,350.	

¹ Excludes member paid service purchases of \$366,350.

² Cash flows assumed to occur mid-year.



GASB NO. 67 and GASB NO. 68 NOTES TO THE FINANCIAL STATEMENTS

The material presented herein is a subset of the information requested as Notes to the Financial Statements. Required information not provided herein is to be supplied by the plan.

Actuarial Assumptions and Inputs

Significant actuarial assumptions and other inputs used to measure the total pension liability:

Type of Plan The Judges' Retirement System is a single-employer plan for GASB

accounting purposes.

Measurement Date June 30, 2021

Valuation Date

Assets: June 30, 2021

Liabilities: June 30, 2020 – The TPL as of June 30, 2021 was determined based on an

actuarial valuation prepared as of June 30, 2020 rolled forward one year to June 30, 2021, using the following key actuarial assumptions and other inputs, such as benefit accruals and actual benefit payments during that

time period.

Inflation 2.00%

Future Salary Increases 2.65% per year beginning July 1, 2022. Actual salary increases on

July 1, 2020 (3.3%) and July 1, 2021 (2.45%) are reflected in the in the

liability valuation at June 30, 2021.

Cost-of-Living Increases As of June 30, 2021:

2.65% compounded annually, beginning July 1, 2022. Actual COLA

increases at July 1, 2020 (3.3%) and July 1, 2021 (2.45%) are reflected in

the valuation.

As of June 30, 2020:

2.75% compounded annually, beginning July 1, 2021. Actual COLA increases at July 1, 2010 (2.7%) and July 1, 2020 (3.3%) are reflected in

increases at July 1, 2019 (2.7%) and July 1, 2020 (3.3%) are reflected in

the valuation.





Mortality Assumption

Pub-2010 Public Retirement Plans Mortality Tables (Amount-Weighted) with a fully generational projection of mortality improvements using SOA Scale MP-2019.

Healthy Employees – General Employee table with a 1 year setback for males and a 1 year setback for females.

Retirees – General Retiree table with a 1 year setback for males and a 1 year setback for females.

Beneficiaries – Contingent Survivor table with no set forward for males and a 2 year set forward for females.

Disableds – General Disabled table with a 140% load.

Experience Study

The most recent comprehensive experience study, based on member experience between June 30, 2014 and June 30, 2019, was completed in February 2020. The demographic assumptions were approved by the Board in June 2020 and were used beginning with the June 30, 2020 actuarial valuation. Economic assumptions were updated and approved by the Board in May 2021 following the completion of an Asset-Liability study and first used in the June 30, 2021 actuarial valuation.

Discount Rate

6.25%, net of investment expenses

The discount rate is equal to the expected long-term rate of return on plan investments, net of investment expense and including price inflation. The discount rate decreased from the 6.75% used on the prior measurement date.

The INPRS Board of Trustees has established a funding policy of requesting appropriations from the State in an amount equal to the actuarially determined contribution, which is based on the assumptions and methods selected by the Board for the annual actuarial valuations and projected covered member payroll. The June 30, 2021 actuarial valuation assumes a long-term rate of return on assets of 6.25%, a 20-year level dollar closed method for amortizing the future layers of unfunded actuarial accrued liability (30 years for amortization layers established prior to June 30, 2016), and a 5-year smoothing method for recognizing investment gains and losses in the actuarial value of assets.



Discount Rate Sensitivity

	1% Decrease 5.25%	Current Rate 6.25%	1% Increase 7.25%	
Net Pension Liability	\$30,236,534	(\$45,821,088)	(\$109,675,271)	

Classes of Plan Members Covered

The June 30, 2021 valuation was performed using census data provided by INPRS as of June 30, 2020. Standard actuarial techniques were used to roll forward the total pension liability computed as of June 30, 2020 to the June 30, 2021 measurement date using actual benefit payments during that period of time.

Number as of June 30, 2020			
1. Currently Receiving Benefits:			
Retired Members, Disabled Members, and Beneficiaries	394		
2. Inactive Members Entitled To But Not Yet Receiving Benefits	24		
3. Inactive Non-vested Members Entitled to a Refund of Member Contributions	34		
4. Active Members	465		
Total Covered Plan Members: (1)+(2)+(3)+(4)	917		

Money-Weighted Rate of Return

The money-weighted rate of return equals investment performance, net of pension plan investment expense, adjusted for the changing amounts actually invested. For the fiscal year ending June 30, 2021, the money-weighted return on the plan assets is 25.5%.

Components of Net Pension Liability

As of June 30, 2021	
Total Pension Liability	\$ 642,171,761
Fiduciary Net Position	 687,992,849
Net Pension Liability	\$ (45,821,088)
Ratio of Fiduciary Net Position to Total Pension Liability	107.14%



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION

SCHEDULE OF CHANGES IN THE TOTAL PENSION LIABILITY AND PLAN FIDUCIARY NET POSITION

Fiscal Year Ending June 30	2017	2018	2019	2020	2021
Total Pension Liability					
Total Pension Liability - beginning	\$501,125,713	\$523,735,050	\$547,694,452	\$586,499,053	\$592,510,151
Service Cost (SC), beginning-of-year	14,762,102	14,885,621	18,229,583	19,566,868	17,969,443
Interest Cost, including interest on SC	34,082,760	35,567,044	37,346,053	40,005,655	40,243,810
Experience (Gains)/Losses	(3,106,524)	(3,090,250)	8,527,309	(1,968,039)	(6,218,613)
Assumption Changes	(1,212,930)	0	0	(24,814,282)	26,216,964
Plan Amendments	0	0	0	0	0
Actual Benefit Payments	(22,099,240)	(23,622,253)	(25,391,127)	(26,836,475)	(28,916,344)
Member Reassignments	0	0	0	0	0
Service Purchases	183,169	219,240	92,783	57,371	366,350
Net Change in Total Pension Liability	22,609,337	23,959,402	38,804,601	6,011,098	49,661,610
(a) Total Pension Liability - ending	\$523,735,050	\$547,694,452	\$586,499,053	\$592,510,151	\$642,171,761
Plan Fiduciary Net Position					
Plan Fiduciary Net Position – beginning	\$441,790,144	\$475,054,556	\$513,952,408	\$545,330,816	\$554,121,143
Contributions – employer	16,823,600	15,117,494	16,030,805	18,166,479	18,620,626
Contributions – non-employer	0	0	0	0	0
Contributions – member	3,467,843	3,417,904	3,475,575	3,548,975	4,040,801
Net investment income	35,195,878	44,103,829	37,370,961	14,020,453	140,227,588
Actual benefit payments	(22,099,240)	(23,622,253)	(25,391,127)	(26,836,475)	(28,916,344)
Net member reassignments	0	0	0	0	0
Administrative expense	(123,669)	(119,122)	(107,806)	(109,105)	(100,949)
Other	0	0	0	0	(16)
Net change in Plan Fiduciary Net Position	33,264,412	38,897,852	31,378,408	8,790,327	133,871,706
(b) Plan Fiduciary Net Position - ending	\$475,054,556	\$513,952,408	\$545,330,816	\$554,121,143	\$687,992,849
Net Pension Liability - ending, (a) - (b)	\$48,680,494	\$33,742,044	\$41,168,237	\$38,389,008	(\$45,821,088)



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION

SCHEDULE OF CHANGES IN THE TOTAL PENSION LIABILITY AND PLAN FIDUCIARY NET POSITION (continued)

Fiscal Year Ending June 30	2013	2014	2015	2016
Total Pension Liability				
Total Pension Liability - beginning	\$437,854,459	\$453,109,893	\$464,854,573	\$468,944,751
Service Cost (SC), beginning-of-year	16,084,589	15,301,638	15,283,088	13,869,891
Interest Cost, including interest on SC	30,047,576	30,992,602	31,753,468	31,889,331
Experience (Gains)/Losses	(13,602,915)	(16,025,822)	8,410,750	7,181,935
Assumption Changes	185,587	0	(31,925,306)	0
Plan Amendments	0	0	0	0
Actual Benefit Payments	(17,579,537)	(18,527,788)	(19,431,822)	(20,921,745)
Member Reassignments	120,134	4,050	0	0
Service Purchases	0	0	0	161,550
Net Change in Total Pension Liability	15,255,434	11,744,680	4,090,178	32,180,962
(a) Total Pension Liability - ending	\$453,109,893	\$464,854,573	\$468,944,751	\$501,125,713
Plan Fiduciary Net Position	0			
Plan Fiduciary Net Position – beginning	\$262,325,682	\$375,752,562	\$432,729,729	\$437,352,498
Contributions – employer	111,417,613	20,894,700	21,020,000	16,946,301
Contributions – non-employer	0	0	0	0
Contributions – member	2,631,374	2,855,956	3,292,222	3,239,092
Net investment income	16,963,156	51,896,235	(93,406)	5,322,425
Actual benefit payments	(17,579,537)	(18,527,788)	(19,431,822)	(20,921,745)
Net member reassignments	120,134	4,050	0	0
Administrative expense	(125,860)	(145,986)	(164,225)	(148,427)
Other	0	0	0	0
Net change in Plan Fiduciary Net Position	113,426,880	56,977,167	4,622,769	4,437,646
(b) Plan Fiduciary Net Position - ending	\$375,752,562	\$432,729,729	\$437,352,498	\$441,790,144
Net Pension Liability - ending, (a) - (b)	\$77,357,331	\$32,124,844	\$31,592,253	\$59,335,569



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION SCHEDULE OF THE NET PENSION LIABILITY

Fiscal Year Ending June 30

Fiscal Year Ending June 30	2017	2018	2019	2020	2021
Total Pension Liability	\$523,735,050	\$547,694,452	\$586,499,053	\$592,510,151	\$642,171,761
Plan Fiduciary Net Position	475,054,556	513,952,408	545,330,816	554,121,143	687,992,849
Net Pension Liability	\$48,680,494	\$33,742,044	\$41,168,237	\$38,389,008	(\$45,821,088)
Ratio of Plan Fiduciary Net Position to Total Pension Liability	90.71%	93.84%	92.98%	93.52%	107.14%
Covered-employee payroll ¹	\$54,755,206	\$53,350,037	\$56,379,905	\$58,188,887	\$61,214,824
Net Pension Liability as a percentage of covered-employee payroll	88.91%	63.25%	73.02%	65.97%	-74.85%
Fiscal Year Ending June 30		2013	2014	2015	2016
Total Pension Liability		\$453,109,893	\$464,854,573	\$468,944,751	\$501,125,713
Plan Fiduciary Net Position		375,752,562	432,729,729	437,352,498	441,790,144
Net Pension Liability		\$77,357,331	\$32,124,844	\$31,592,253	\$59,335,569
Ratio of Plan Fiduciary Net Position to Total Pension Liability		82.93%	93.09%	93.26%	88.16%
Covered-employee payroll ¹		\$47,594,849	\$46,041,085	\$48,582,165	\$51,381,964
Net Pension Liability as a percentage of covered-employee payroll		162.53%	69.77%	65.03%	115.48%

¹ As provided by INPRS.



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION SCHEDULE OF EMPLOYER CONTRIBUTIONS

Fiscal Year Ending June 30	2017	2018	2019	2020	2021
Actuarially Determined Contribution ¹ Actual employer contributions Annual contribution (deficiency) / excess	\$14,334,913 <u>\$16,823,600</u> \$2,488,687	\$14,852,650 <u>\$15,117,494</u> \$264,844	\$14,861,743 <u>\$16,030,805</u> \$1,169,062	\$19,405,994 <u>\$18,166,479</u> (\$1,239,515)	\$22,074,066 <u>\$18,620,626</u> (\$3,453,440)
Covered-employee payroll ² Actual contributions as a percentage of covered-employee payroll	\$54,755,206 30.73%	\$53,350,037 28.34%	\$56,379,905 28.43%	\$58,188,887 31.22%	\$61,214,824 30.42%
Fiscal Year Ending June 30		2013	2014	2015	2016
Actuarially Determined Contribution ¹ Actual employer contributions Annual contribution (deficiency) / excess		\$25,458,485 <u>\$111,417,613</u> \$85,959,128	\$27,647,672 <u>\$20,894,700</u> (\$6,752,972)	\$18,864,455 <u>\$21,020,000</u> \$2,155,545	\$17,485,282 <u>\$16,946,301</u> (\$538,981)
Covered-employee payroll ² Actual contributions as a percentage of covered-employee payroll		\$47,594,849 234.10%	\$46,041,085 45.38%	\$48,582,165 43.27%	\$51,381,964 32.98%

¹ Actuarially determined contribution rate was developed in the actuarial funding valuation completed one year prior to the fiscal year. This rate was applied to the actual covered employee payroll for the fiscal year to determine the contribution amount.

² As provided by INPRS.



GASB NO. 67 AND GASB NO. 68: REQUIRED SUPPLEMENTAL INFORMATION SCHEDULE OF MONEY-WEIGHTED RETURNS

For Fiscal Year Ending June 30	Money-Weighted Return
2021	25.5%
2020	2.6%
2019	7.3%
2018	9.3%
2017	8.0%
2016	1.2%
2015	(0.1%)
2014	13.7%
2013	5.2%

Information was provided prospectively from June 30, 2013 for GASB No. 67 and GASB No. 68 purposes. Results were provided by INPRS.





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A glossary of actuarial t	terms used in the valuation report.	



MEMBER DATA RECONCILIATION For June 30, 2020 Data used in the June 30, 2021 Valuation

	Active Members	Inactive Vested	Inactive Nonvested	Disabled	Retired	Beneficiary	Total
1. As of June 30, 2019	458	24	33	2	290	104	911
2. Data Adjustments							
New Participants	20	0	0	0	0	0	20
Rehires	1	0	(1)	0	0	0	0
Terminations:							
Not Vested	(3)	0	3	0	0	0	0
Deferred Vested	(4)	4	0	0	0	0	0
Disability	0	0	0	0	0	0	0
Retirements	(4)	(4)	0	0	8	0	0
Refund / Benefits Ended	0	0	(2)	0	0	(3)	(5)
Deaths:							
With Beneficiary	(3)	0	1	0	(7)	9	0
Without Beneficiary	0	0	0	0	(3)	(6)	(9)
Data Corrections	0	0	0	0	0	0	0
Net Change	7	0	1	0	(2)	0	6
3. As of June 30, 2020 ¹	465	24	34	2	288	104	917

¹ The valuation results were calculated using the prior year's census data and were adjusted for certain activity during fiscal year.



SUMMARY OF MEMBERSHIP DATA

Valuation Date		June 30, 2020		June 30, 2021	% Change
Date of Membership Data ¹		July 1, 2019		July 1, 2020	
ACTIVE MEMBERS					
Number of Active Members		458		465	1.5%
Annual Membership Data Salary ²	\$	65,582,237	\$	69,165,378	5.5%
Anticipated Covered Pay for Next Fiscal Year ³	\$	60,109,120	\$	62,714,587	4.3%
Active Member Averages					
Age		55.6		56.1	0.9%
Service		9.7		10.1	4.1%
Annual Membership Data Salary	\$	143,193	\$	148,743	3.9%
INACTIVE MEMBERS					
Number of Members					
Inactive Vested		24		24	0.0%
Inactive Non-Vested	_	33	_	34	3.0%
Total		57		58	1.8%
Inactive Vested Member Averages					
Age		58.3		58.5	0.3%
Service		12.7		12.0	(5.5%)
RETIREES, DISABLEDS, AND BENEFICIARIE	S				
Number of Members					
Retired		290		288	(0.7%)
Disabled		2		2	0.0%
Beneficiaries		104		104	0.0%
Total		396		394	(0.5%)
Annual Benefits					
Retired	\$	23,044,992	\$	23,513,685	2.0%
Disabled		138,298		142,032	2.7%
Beneficiaries		3,106,004		3,221,425	3.7%
Total	\$	26,289,294	\$	26,877,142	2.2%

¹The valuation results were calculated using the prior year's census data and were adjusted for certain activity during fiscal year.

² Annualized for actives with less than a year of service. Actives with no salary provided are defaulted to the state provided salary for their job title.

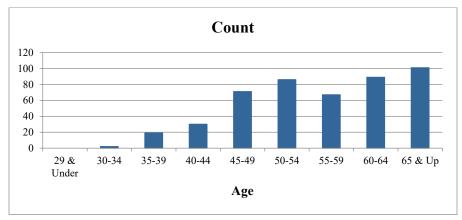
³ Actual pay for contributing members with less than 22 years of service for the fiscal year ending on the valuation date, rolled forward at the known pay increase of 2.45%.



ACTIVE MEMBERS As of June 30, 2020 for the June 30, 2021 Valuation

Count of Members	FY 2020 Annual Membership Data Salary

<u>Age</u>	Male	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
29 & Under	0	0	0	0	0	0
30-34	0	2	2	0	249,800	249,800
35-39	10	9	19	1,373,900	1,217,775	2,591,675
40-44	18	12	30	2,560,450	1,717,375	4,277,825
45-49	41	30	71	6,120,100	4,309,050	10,429,150
50-54	51	35	86	7,583,112	5,152,125	12,735,237
55-59	48	19	67	7,214,349	2,685,350	9,899,699
60-64	60	29	89	9,230,285	4,180,274	13,410,559
65 & Up	<u>75</u>	<u>26</u>	<u>101</u>	11,566,223	4,005,210	15,571,433
Total	303	162	465	\$ 45,648,419	\$ 23,516,959	\$ 69,165,378







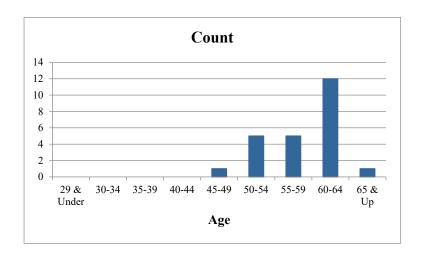
AGE AND SERVICE DISTRIBUTION As of June 30, 2020 for the June 30, 2021 Valuation

Age		0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	Total
29 &	Number	0	0	0	0	0	0	0	0	0
Under	Total Salary	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Average Sal.	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
30-34	Number	2	0	0	0	0	0	0	0	2
	Total Salary	\$ 249,800	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 249,800
	Average Sal.	\$ 124,900	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 124,900
35-39	Number	14	5	0	0	0	0	0	0	19
	Total Salary	\$ 1,935,950	\$ 655,725	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 2,591,675
	Average Sal.	\$ 138,282	\$ 131,145	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 136,404
40-44	Number	16	11	3	0	0	0	0	0	30
	Total Salary	\$ 2,216,975	\$ 1,623,700	\$ 437,150	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 4,277,825
	Average Sal.	\$ 138,561	\$ 147,609	\$ 145,717	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 142,594
45-49	Number	26	35	8	2	0	0	0	0	71
	Total Salary	\$ 3,809,450	\$ 5,089,675	\$ 1,217,775	\$ 312,250	\$ 0	\$ 0	\$ 0	\$ 0	\$ 10,429,150
	Average Sal.	\$ 146,517	\$ 145,419	\$ 152,222	\$ 156,125	\$ 0	\$ 0	\$ 0	\$ 0	\$ 146,889
50-54	Number	25	33	19	8	1	0	0	0	86
	Total Salary	\$ 3,622,100	\$ 4,839,875	\$ 2,930,587	\$ 1,186,550	\$ 156,125	\$ 0	\$ 0	\$ 0	\$ 12,735,237
	Average Sal.	\$ 144,884	\$ 146,663	\$ 154,241	\$ 148,319	\$ 156,125	\$ 0	\$ 0	\$ 0	\$ 148,084
55-59	Number	17	21	11	13	5	0	0	0	67
	Total Salary	\$ 2,467,462	\$ 2,998,287	\$ 1,686,150	\$ 1,967,175	\$ 780,625	\$ 0	\$ 0	\$ 0	\$ 9,899,699
	Average Sal.	\$ 145,145	\$ 142,776	\$ 153,286	\$ 151,321	\$ 156,125	\$ 0	\$ 0	\$ 0	\$ 147,757
60-64	Number	14	24	15	16	20	0	0	0	89
	Total Salary	\$ 1,967,175	\$ 3,434,750	\$ 2,248,200	\$ 2,494,124	\$ 3,266,310	\$ 0	\$ 0	\$ 0	\$ 13,410,559
	Average Sal.	\$ 140,513	\$ 143,115	\$ 149,880	\$ 155,883	\$ 163,316	\$ 0	\$ 0	\$ 0	\$ 150,680
65 &	Number	6	17	22	17	39	0	0	0	101
Up	Total Salary	\$ 874,300	\$ 2,524,662	\$ 3,341,075	\$ 2,560,450	\$ 6,270,946	\$ 0	\$ 0	\$ 0	\$ 15,571,433
	Average Sal.	\$ 145,717	\$ 148,510	\$ 151,867	\$ 150,615	\$ 160,793	\$ 0	\$ 0	\$ 0	\$ 154,173
Total	Number	120	146	78	56	65	0	0	0	465
	Total Salary	\$ 17,143,212	\$ 21,166,674	\$ 11,860,937	\$ 8,520,549	\$ 10,474,006	\$ 0	\$ 0	\$ 0	\$ 69,165,378
	Average Sal.	\$ 142,860	\$ 144,977	\$ 152,063	\$ 152,153	\$ 161,139	\$ 0	\$ 0	\$ 0	\$ 148,743



INACTIVE VESTED MEMBERS As of June 30, 2020 for the June 30, 2021 Valuation

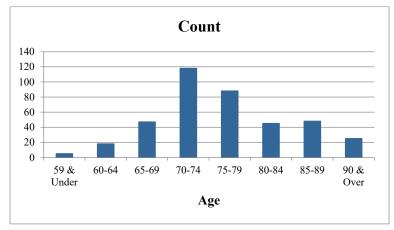
_	Count of Members					
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>			
29 & Under	0	0	0			
30-34	0	0	0			
35-39	0	0	0			
40-44	0	0	0			
45-49	0	1	1			
50-54	3	2	5			
55-59	2	3	5			
60-64	6	6	12			
65 & Up	<u>1</u>	<u>0</u>	<u>1</u>			
Total	12	12	24			

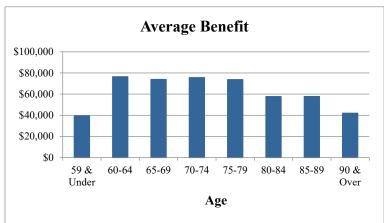




MEMBERS AND BENEFICIARIES RECEIVING BENEFITS As of June 30, 2020 for the June 30, 2021 Valuation

_	Count of Members				Annual Benefits				
<u>Age</u>	Male	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>			
59 & Under	0	5	5	\$ 0	\$ 196,467	\$ 196,467			
60-64	9	9	18	774,954	601,574	1,376,528			
65-69	34	13	47	2,653,965	818,713	3,472,678			
70-74	87	31	118	7,279,502	1,646,671	8,926,173			
75-79	69	19	88	5,663,580	824,821	6,488,401			
80-84	22	23	45	1,724,946	871,002	2,595,948			
85-89	26	22	48	2,093,739	677,992	2,771,731			
90 & Over	<u>7</u>	<u>18</u>	<u>25</u>	460,506	<u>588,710</u>	1,049,216			
Total	254	140	394	\$ 20,651,192	\$ 6,225,950	\$ 26,877,142			







MEMBERS AND BENEFICIARIES RECEIVING BENEFITS As of June 30, 2020 for the June 30, 2021 Valuation

Schedule of Average Benefit Payments ¹

	Years of Credited Service						
For the Year Ended June 30, 2021	< 10	10 - 14	15 - 19	20 - 24	25 - 29	30 +	Total
Average Monthly Defined Benefit	\$2,191	\$4,949	\$5,918	\$6,680	\$6,694	\$6,795	\$5,685
Average Final Average Salary ²	\$107,521	\$125,235	\$130,524	\$132,271	\$117,330	\$128,801	\$126,968
Number of Benefit Recipients	38	90	92	101	40	33	394

Schedule of Benefit Recipients by Type of Benefit Option ¹

Number of Recipients by Benefit Option

Amount of Monthly Benefit (in dollars)	Joint with 50% Survivor Benefits	Survivors	Disability	Total Benefit Recipients
1 - 500	0	0	0	0
501 - 1,000	0	0	0	0
1,001 - 1,500	0	21	0	21
1,501 - 2,000	0	11	0	11
2,001 - 2,500	3	12	0	15
2,501 - 3,000	4	18	0	22
Over 3,000	281	42	2	325
Total	288	104	2	394

¹ Calculated using the prior year census data, adjusted for certain activity during the fiscal year.

² Excludes the 108 in-pay members who are missing a final average salary in the data.



MEMBERS AND BENEFICIARIES RECEIVING BENEFITS As of June 30, 2020 for the June 30, 2021 Valuation

Schedule of Retirants and Beneficiaries

	Added	to Rolls	Removed	Removed from Rolls		Rolls - End of Year			
	Number	Annual Benefits ¹	Number	Annual Benefits ¹	Number	Total Annual Benefits ^{1,2}	Percent Change In Total Annual Benefits	Average Annual Benefit	Percent Change In Average Annual Benefit
2021 ³	10	\$729	12	\$492	394	\$26,877	2.2%	\$68,216	2.8%
2020 ³	31	2,498	10	261	396	26,289	10.5	66,387	4.6
2019 ³	18	1,340	8	191	375	23,794	5.1	63,450	2.3
2018 ³	22	1,723	7	309	365	22,637	5.5	62,019	1.1
2017 ³	9	696	10	509	350	21,465	2.4	61,329	2.7
2016 ³	34	2,520	9	340	351	20,959	12.8	59,714	4.8
2015 ³	10	494	5	195	326	18,578	0.6	56,987	(1.0)
2014 ³	0	0	0	0	321	18,474	0.0	57,551	0.0
2013	24	1,798	14	442	321	18,474	8.5	57,551	5.1
2012	7	444	6	194	311	17,028	1.4	54,751	1.1

¹Dollar amounts are in thousands except for the average annual benefit.

² End of year annual benefits are not equal to prior end of year annual benefits plus additions less removals due to beneficiary benefit changes, data changes, and COLA increases.

³ The valuation results were calculated using the prior year census data, adjusted for certain activity during the fiscal year.





Definitions

Fiscal year Twelve month period ending June 30.

Participation All individuals serving as a judge or justice in Indiana as

defined in IC 33-38-6-7. A judge who begins service before September 1, 1985 shall be a participant of the 1977 Plan (IC 33-38-7) and a judge who begins service after August 31, 1985 shall be a participant of the 1985 Plan (IC 33-38-8).

Member contributions Each participant contributes 6% of his total salary until

completion of 22 years of service. Beginning in 2013, the employee contributions are picked up by the employer as pre-

tax money which are also included in annual salary.

Earnings Earnings is the annual salary being paid for the office which

the participant held at the time of separation from service

effective January 1, 2010.

Eligibility for Benefits

Deferred vested 8 or more years of creditable service and no longer active.

Disability retirement A participant is considered disabled if two (2) physicians

certify that the participant is totally incapacitated from earning a livelihood and that the condition is likely to be

permanent.

Early retirement Age 62 with 8 or more years of creditable service.

Normal retirement Earliest of:

- Age 65 with 8 or more years of creditable service

- Age 55 with sum of age and creditable service equal

to 85 or more

Pre-retirement death 8 or more years of creditable service entitled to a future

benefit.



Monthly Benefits Payable

Normal retirement

The normal retirement benefit is a monthly annuity payable for life with a 50% continuation (or \$12,000 annually, if greater) to a surviving spouse or surviving dependent children. The benefit is equal to a percentage of earnings in accordance with the following table:

Years of	
Service	Percentage
7 or less	0%
8	24%
9	27%
10	30%
11	33%
12	50%
13	51%
14	52%
15	53%
16	54%
17	55%
18	56%
19	57%
20	58%
21	59%
22 or more	60%

An additional percentage shall be calculated by prorating between applicable percentages, based on the number of months in a partial year of service.

The early retirement benefit is the accrued retirement benefit determined as of the early retirement date and payable commencing at the normal retirement date. A participant may elect to have the benefit commence prior to age 65 provided the benefit is reduced by 0.1% for each month that the benefit commencement date precedes age 65.

The termination benefit is the accrued retirement benefit determined as of the termination date and payable commencing as of the normal retirement date. The participant may elect to receive a reduced early retirement benefit.

Early retirement

Deferred retirement



Disability

The disability retirement benefit is payable for the duration of the disability commencing the month following disability date. The amount of monthly benefit shall be equal to a percentage of: (1) for the 1977 JRS Plan – the salary paid for the office the member held at the time of separation; (2) for the 1985 Plan – salary paid to the member at the time of separation. The percentages are in accordance with the following table:

Years of Service	Percentage
12 or less	50%
13	51%
14	52%
15	53%
16	54%
17	55%
18	56%
19	57%
20	58%
21	59%
22 or more	60%

An additional percentage shall be calculated by prorating between applicable percentages, based on the number of months in a partial year of service.

If death occurs (a) while receiving benefits, (b) while in service as a judge with 8 or more years of service, or (c) while permanently disabled, the spouse or family of dependent children shall be eligible for a benefit equal to the greater of \$12,000 (effective July 1, 1977) annually or 50% of the benefit the participant was receiving or was entitled to receive at the time of death.

Spousal benefits are payable as a lifetime monthly pension.

Participant benefits in the Judges' 1977 Retirement, Disability, and Death Plan increase in the same ratio as the salary being paid for the office a participant held at the time of separation from service increases. Effective January 1, 2010, the Judges' 1985 Retirement, Disability, and Death Plan will also have benefits increase in the same manner, on a prospective basis only.

Pre-retirement death

Post-retirement benefit increases



APPENDIX B – SUMMARY OF PLAN PROVISIONS

Cost-of-Living-Adjustments Benefits for retired members (does not include disabled

members or surviving spouses) increase automatically based on the annual pay increase granted for the position the member held at the time of retirement. The annual cost-of-living assumption for the valuation is 2.65%, which is the

same as the salary increase assumption for active members.

Forms of payment

a. Single life annuity Member will receive a monthly benefit for life, but there are

no monthly payments to anyone after death.

b. Joint with one-half survivor Mer

benefits

Member will be paid a monthly benefit for life. After death, one-half (1/2) of the benefit will be paid to the spouse for their lifetime or the dependent until age 18 unless disabled. If the dependent child was named the beneficiary, once they are no longer entitled to the benefit, the spouse would receive the benefit for life.

Changes in Plan Provisions since the Prior Year

None.



ACTUARIAL METHODS

1. Actuarial Cost Method

The actuarial cost method is Entry Age Normal - Level Percent of Payroll.

The normal cost is calculated separately for each active member and is equal to the level percentage of payroll needed as an annual contribution from entry age to retirement age to fund projected benefits. The actuarial accrued liability on any valuation date is the accumulated value of such normal costs from entry age to the valuation date.

For funding, gains and losses occurring from census experience different than assumed, assumption changes, and benefit changes are amortized over a 20-year period with level payments each year. A new gain or loss base is established each year based on the additional gain or loss during that year and that base is amortized over a new 20-year period (gain or loss bases established prior to June 30, 2016 were amortized over 30 years and will continue to be amortized over 30 -year period). However, when the plan is at or above 100% funded (based on Actuarial Value of Assets), the past amortization bases are considered fully amortized and a single amortization base equal to the surplus is amortized over a 30-year period with level payments each year. The purpose of the method is to give a smooth progression of the costs from year to year and, at the same time, provide for an orderly funding of the unfunded liabilities.

For accounting, gains and losses occurring from census experience different than assumed and assumption changes are amortized into expense over the average expected future service of all plan participants. Gains and losses occurring from investment experience different from assumed are amortized into expense over a 5-year period. The effect of plan changes on the plan liability are fully recognized in expense in the year in which they occur.

Member census data as of June 30, 2020 was used in the valuation and adjusted, where appropriate, to reflect changes between June 30, 2020 and June 30, 2021. The valuation results from June 30, 2020 were rolled-forward to June 30, 2021 to reflect benefit accruals during the year less benefits paid.

2. Asset Valuation Method

The Actuarial Value of Assets smoothes the recognition of gains and losses on the Market Value of Assets over five years, subject to a 20% corridor.

3. State Appropriations

Based on the assumptions and methods previously described, an actuarially determined contribution amount is computed. The Board considers this information when requesting funds from the State.



4. Anticipated Payroll

The anticipated payroll for the fiscal year following the valuation date is equal to the actual payroll during the year ending on the valuation date, increased with the actual pay adjustment as of the valuation date. The proportion of pay attributable to active members with more than 22 years of service is presumed constant.

Changes in Methods since the Prior Year

None.



ACTUARIAL ASSUMPTIONS

Valuation Date June 30, 2021

Economic Assumptions

1. Investment return 6.25% per year, compounded annually (net of administrative

and investment expenses)

2. Inflation 2.00% per year

3. Salary increase 2.65% per year beginning July 1, 2022. Actual salary increases

on July 1, 2020 (3.30%) and July 1, 2021 (2.45%) are reflected

in the in the valuation.

4. Interest on member balances 3.30% per year

5. Cost-of-Living Adjustment (COLA) 2.65% compounded annually, beginning July 1, 2022. Actual

COLA increases at July 1, 2020 (3.30%) and July 1, 2021

(2.45%) are reflected in the valuation.

Demographic Assumptions

1. Mortality Pub-2010 Public Retirement Plans Mortality Tables (Amount-

Weighted) with a fully generational projection of mortality

improvements using SOA Scale MP-2019.

Healthy Employees - General Employee table with a 1 year

setback for males and a 1 year setback for females.

Retirees - General Retiree table with a 1 year setback for

males and a 1 year setback for females.

Beneficiaries – Contingent Survivor table with no set forward

for males and a 2 year set forward for females.

Disableds - General Disabled table with a 140% load.



APPENDIX C - SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

2. Disability

	Sample
Age	Rates
20	0.057%
25	0.081%
30	0.105%
35	0.140%
40	0.210%
44-64	0.300%
65+	0.000%

3. Retirement

Age	Eligible for Reduced Benefit	Eligible for Unreduced Benefit
55-61	N/A	20%
62-64	8%	20%
65-74	N/A	30%
75+	N/A	100%

Inactive vested members are assumed to commence their retirement benefit at their earliest eligible retirement date.

4. Termination

3% per year for all members prior to retirement eligibility.

Other Assumptions

1. Form of payment

Members are assumed to elect either a single life annuity or a 50% joint survivor benefit based on the marriage assumptions

below.

2. Marital status

a. Percent married

90% of members are assumed to be married or to have a

dependent beneficiary.

b. Spouse's age

Male members are assumed to be three (3) years older than their spouses and female members are assumed to be two (2)

years younger than their spouses.

3. Decrement timing

Decrements are assumed to occur at the beginning of the year.



Changes in Assumptions since the Prior Year

As a result of the Asset-Liability work completed and discussed at the May 7, 2021 Board meeting, the Board made portfolio revisions and adopted a new set of economic assumptions for the June 30, 2021 actuarial valuations as follows:

- The investment return assumption was lowered from 6.75% (as of June 30, 2020) to 6.25%.
- Price inflation was lowered from 2.25% (as of June 30, 2020) to 2.00%.
- General wage inflation was lowered from 2.75% (as of June 30, 2020) to 2.65%.
- Interest on member balances was lowered from 3.50% (as of June 30, 2020) to 3.30%.
- Cost-of-living adjustments were lowered from 2.75% (as of June 30, 2020) to 2.65%, which aligns with the assumed salary increases.

Data Adjustments

Active and retired member data is reported as of June 30. Member census data as of June 30, 2020 was used in the valuation and adjusted. Standard actuarial roll-forward techniques were then used to project the liability computed as of June 30, 2020 to the June 30, 2021 valuation date. The normal cost rate is assumed to remain unchanged between June 30, 2020 and June 30, 2021.

The member total payroll and the asset information for this valuation were furnished as of June 30, 2021. Total payroll in FYE 2022 is assumed to increase by the actual salary increase as of the valuation date over the total payroll observed for FYE 2021. We did not audit the information provided, but we did review it thoroughly for reasonableness and compared it with the prior year's submission for consistency.

Other Technical Valuation Procedures

Salary increases are assumed to apply to annual amounts.

Decrements are assumed to occur at the beginning of the year. Standard adjustments are made for multiple decrements.

No actuarial liability is included for participants who terminated without being vested prior to the valuation date, except those due a refund of contributions.





Accrued Service Service credited under the plan that was rendered before the

date of the actuarial valuation.

Actuarial Assumptions Estimates of future experience with respect to demographic or

economic events. Demographic assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term

average rate of inflation.

Actuarial Cost Method A mathematical budgeting procedure for allocating the dollar

amount of the actuarial present value of retirement plan benefits between future normal cost and actuarial accrued liability. Sometimes referred to as the "actuarial funding

method."

Actuarial Equivalent A single amount or series of amounts of equal value to another

single amount or series of amounts computed on the basis of a

given set of actuarial assumptions.

Actuarial Accrued Liability The difference between the actuarial present value of plan

benefits and the actuarial value of future normal costs. Also

referred to as "accrued liability" or "actuarial liability."

Actuarial Present Value The amount of funds currently required to provide a payment

or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest

and by probabilities of payment.

Amortization Paying off an interest-discounted amount with periodic

payments of interest and principal, as opposed to paying off

with lump sum payment.

Experience Gain (Loss)

The difference between actual experience and actuarial

assumptions anticipated experience during the period between

two actuarial valuation dates.

Normal Cost The actuarial present value of retirement plan benefits

allocated to the current year by the actuarial cost method.

Unfunded Actuarial Accrued Liability The difference between actuarial liability and the actuarial

value of assets. Sometimes referred to as "unfunded accrued

liability" or "unfunded liability."

Most retirement plans have unfunded actuarial liability. They

arise anytime new benefits are added and anytime an actuarial

loss is realized.